

| <u>DB Name</u>                | <u>Query</u>  | <u>Hit Count</u> | <u>Set Name</u> |
|-------------------------------|---|------------------|-----------------|
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | sodium carboxymethyl cellulose near<br>thicken\$ [ti] | 2                | <u>L11</u>      |
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | sodium carboxymethyl cellulose near<br>thicken\$      | 110              | <u>L10</u>      |
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | acoustic\$ tile and polyacrylic\$                     | 9                | <u>L9</u>       |
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | acoustic\$ tile and polyacrylic resin                 | 0                | <u>L8</u>       |
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | acoustic\$ tile and anionic polyacrylic<br>resin      | 0                | <u>L7</u>       |
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | acoustic\$ tile and sodium<br>carboxymethyl cellulose | 1                | <u>L6</u>       |
| USPT,PGPB                     | acoustic\$ tile and sodium<br>carboxymethyl cellulose | 1                | <u>L5</u>       |
| USPT,PGPB                     | 4549931 [pn] and sodium<br>carboxymethyl cellulose    | 0                | <u>L4</u>       |
| USPT,PGPB                     | 4549931 [pn] and carboxymethyl<br>cellulose           | 0                | <u>L3</u>       |
| USPT,PGPB                     | 4549931 [pn] and retention aid                        | 0                | <u>L2</u>       |
| USPT,PGPB                     | 4549931 [pn] and starch                               | 0                | <u>L1</u>       |

09/718755

Art Unit: 1711

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Krishnan et al

(WO 95/24447).

Krishnan discloses compatibilized blends of a biodegradable hydrophobic polyester,

unmodified starch or other similar polysaccharide, other biodegradable polymers, plasticizer and

additives. The polymer forms a continuous phase while starch forms a discontinuous one.

Claim 2 is indefinite in reciting "3 or more carbon atoms" and "2 or more alcohol group"

because one cannot know precisely how many carbon atoms or how many alcohol groups are

envisioned.

This application does not contain an abstract of the disclosure as required by 37

CFR 1.72(b). An abstract on a separate sheet is required.

The disclosure is objected to because of the following informalities: Words "selected

form ..... compounds" in claim 1, lines 8-9, should be replaced with -- which is one of the --.

Hyphen in claim 1 line 9 and dash in line 10 should be deleted.

Appropriate correction is required.

U.K. Rajguru/om  
July 8, 2000

| <u>DB Name</u> | <u>Query</u>                           | <u>Hit Count</u> | <u>Set Name</u> |
|----------------|--|------------------|-----------------|
| USPT,PGPB      | polyamine epichlorohydrin and l2 [clm] | 0                | <u>L14</u>      |
| USPT,PGPB      | polyamine epichlorohydrin and l2 [ab]  | 0                | <u>L13</u>      |
| USPT,PGPB      | polyamine epichlorohydrin and l2 [ti]  | 0                | <u>L12</u>      |
| USPT,PGPB      | polyamine epichlorohydrin and l2       | 7                | <u>L11</u>      |
| USPT,PGPB      | polyamine epichlorohydrin              | 493              | <u>L10</u>      |
| USPT,PGPB      | l1 and l2 [clm]                        | 0                | <u>L9</u>       |
| USPT,PGPB      | l1 and l2 [ab]                         | 1                | <u>L8</u>       |
| USPT,PGPB      | l1 and l2 [ti]                         | 0                | <u>L7</u>       |
| USPT,PGPB      | l1 and l2                              | 6                | <u>L6</u>       |
| USPT,PGPB      | Cal\$3Zet 40                           | 0                | <u>L5</u>       |
| USPT,PGPB      | Cal\$1Zet 40                           | 0                | <u>L4</u>       |
| USPT,PGPB      | Cal Zet 40                             | 0                | <u>L3</u>       |
| USPT,PGPB      | tile                                   | 25901            | <u>L2</u>       |
| USPT,PGPB      | Kymene 557H                            | 166              | <u>L1</u>       |

Q

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Printer: cp3\_4c07\_gbgndpr

## Summary

| Document    | Pages | Printed | Missed |
|-------------|-------|---------|--------|
| US005300562 | 6     | 6       | 0      |
| Total (1)   | 6     | 6       | 0      |

**WEST****Generate Collection****Search Results - Record(s) 1 through 7 of 7 returned.**☐ 1. Document ID: US 20010020077 A1

L11: Entry 1 of 7

File: PGPB

Sep 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010020077

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010020077 A1

TITLE: Novel fluorocopolymers for the hydrophobic and oleophobic treatment of various substrates

PUBLICATION-DATE: September 6, 2001

## INVENTOR-INFORMATION:

| NAME                  | CITY       | STATE | COUNTRY | RULE-47 |
|-----------------------|------------|-------|---------|---------|
| Juhue, Didier         | Vernon     |       | FR      |         |
| Pabon, Martial        | Courbevoie |       | FR      |         |
| Tembou N'Zudie, Denis | Serquigny  |       | FR      |         |
| Corpart, Jean-Marc    | Sannois    |       | FR      |         |
| Lina, Marie-Jose      | Lyon       |       | FR      |         |

US-CL-CURRENT: 526/243; 526/242, 526/245, 526/317.1, 526/319, 526/330

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 2. Document ID: US 6111043 A

L11: Entry 2 of 7

File: USPT

Aug 29, 2000

US-PAT-NO: 6111043

DOCUMENT-IDENTIFIER: US 6111043 A

TITLE: Fluorocopolymers for oil repelling and waterproofing treatment of various substrates

DATE-ISSUED: August 29, 2000

## INVENTOR-INFORMATION:

| NAME               | CITY     | STATE | ZIP CODE | COUNTRY |
|--------------------|----------|-------|----------|---------|
| Corpart, Jean-Marc | Sannois  |       |          | FRX     |
| Dessaint, Andre    | Clermont |       |          | FRX     |
| Lina, Marie-Jose   | Lyons    |       |          | FRX     |

US-CL-CURRENT: 526/243; 428/422, 428/532, 525/326.2, 526/245, 526/246, 526/248

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

Art Unit: 1711

Like Cole, EP '755 does not explicitly mentioned all the (claimed) limitations. Even then teachings of EP '755 would obviously lead one of ordinary skill in the art to the instant invention.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to U.K. Rajguru whose telephone number is (703) 308-3224. The examiner can normally be reached on Monday - Friday from 9:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jim Seidleck, can be reached on (703) 308-2462. The fax phone number for the

organization where this application or proceeding is assigned is (703) 305-3599.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0661.

U.K. Rajguru/om  
June 20, 2000

☐ 3. Document ID: US 6096412 A

L11: Entry 3 of 7

File: USPT

Aug 1, 2000

US-PAT-NO: 6096412

DOCUMENT-IDENTIFIER: US 6096412 A

TITLE: High color density printing on sanitary disposable paper products  
exhibiting resistance to ink rub-off

DATE-ISSUED: August 1, 2000

## INVENTOR-INFORMATION:

| NAME                    | CITY       | STATE | ZIP CODE | COUNTRY |
|-------------------------|------------|-------|----------|---------|
| McFarland; James Robert | Cincinnati | OH    |          |         |
| Ebrahimpour; Arman      | Cincinnati | OH    |          |         |
| Nissing; Nicholas James | Cincinnati | OH    |          |         |

US-CL-CURRENT: 428/211; 428/500, 428/507, 428/511, 428/514

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 4. Document ID: US 5990377 A

L11: Entry 4 of 7

File: USPT

Nov 23, 1999

US-PAT-NO: 5990377

DOCUMENT-IDENTIFIER: US 5990377 A

TITLE: Dual-zoned absorbent webs

DATE-ISSUED: November 23, 1999

## INVENTOR-INFORMATION:

| NAME                  | CITY           | STATE | ZIP CODE | COUNTRY |
|-----------------------|----------------|-------|----------|---------|
| Chen; Fung-jou        | Appleton       | WI    |          |         |
| Lindsay; Jeffrey Dean | Appleton       | WI    |          |         |
| Kamps; Richard Joseph | Wrightstown    | WI    |          |         |
| Lake; Andrew Michael  | Combined Locks | WI    |          |         |
| Robinson; Mark Louis  | Appleton       | WI    |          |         |

US-CL-CURRENT: 604/381; 442/79, 442/86, 604/385.101

| Full | Title | Citation | Front | Review | Classification | Date | Reference | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|------|-----------|-------|

☐ 5. Document ID: US 5213588 A

L11: Entry 5 of 7

File: USPT

May 25, 1993

X000001  
July 31, 1790



The United States

To all to whom these Quents shall come. Greeting.

Whereas Samuel Hopkins of the City of Philadelphia and State of Pennsylvania hath discovered an Improvement, not known or used before such Discovery, in the making of Pot ash and Pearl ash, by a new Apparatus and Process, that is to say, in the making of Pearl ash 1<sup>st</sup> by burning the raw Ashes in a Furnace, 2<sup>d</sup> by digesting and boiling them when so burnt in Water, 3<sup>d</sup> by drawing off and settling the ley, and 4<sup>th</sup> by boiling the ley into darts which turn out the true Pearl ash, and also in the making of Pot ash by passing the Pearl ash so made as aforesaid, which Quantity of burning the raw Ashes in a Furnace, preparing to their Digestion and boiling in Water, is new, leaves little Residuum, and produces a much greater Quantity of Salt: These are therefore in pursuance of the Act, entitled "An Act to promote the Progress of useful Arts," to grant to the said Samuel Hopkins, his heirs, Administrators and Assigns, for the Term of fourteen Years, the sole and exclusive Right and Liberty of using and vending to others the said Discovery, of burning the raw Ashes pursuant to this being digested and boiled in Water, according to the true Intent and meaning of the Act aforesaid. In Testimony whereof I have caused these Letters to be made Patent, and the Seal of the United States to be hereunto affixed Given under my Hand at the City of New York this thirty first Day of July in the third Year of our said one thousand seven hundred and Ninety.

Washington

City of New York July 31<sup>st</sup> 1790.

So hereby certify that the foregoing Letters Patent were delivered to me in pursuance of the Act, entitled "An Act to promote the Progress of useful Arts," that they have remained the same, and find them conformable to the said Act.

Edm: Randolph Attorney General for the United States.



US-PAT-NO: 5213588  
DOCUMENT-IDENTIFIER: US 5213588 A

TITLE: Abrasive wiping articles and a process for preparing such articles

DATE-ISSUED: May 25, 1993

## INVENTOR-INFORMATION:

| NAME               | CITY         | STATE | ZIP CODE | COUNTRY |
|--------------------|--------------|-------|----------|---------|
| Wong; Arthur       | West Chester | OH    |          |         |
| Mackey; Larry N.   | Fairfield    | OH    |          |         |
| Franxman; James J. | Cincinnati   | OH    |          |         |
| Burchnall; John B. | West Chester | OH    |          |         |

US-CL-CURRENT: 51/293; 51/295, 51/298, 525/221

|      |       |          |       |        |                |      |           |
|------|-------|----------|-------|--------|----------------|------|-----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|

|      |           |       |
|------|-----------|-------|
| FIGS | Draw Desc | Image |
|------|-----------|-------|

☐ 6. Document ID: US 4571412 A

L11: Entry 6 of 7

File: USPT

Feb 18, 1986

US-PAT-NO: 4571412

DOCUMENT-IDENTIFIER: US 4571412 A

TITLE: Aqueous adhesive compositions

DATE-ISSUED: February 18, 1986

## INVENTOR-INFORMATION:

| NAME                | CITY           | STATE | ZIP CODE | COUNTRY |
|---------------------|----------------|-------|----------|---------|
| Minamida; Hisatsugu | Yamatokoriyama |       |          | JPX     |
| Kato; Akira         | Nara           |       |          | JPX     |
| Sawayama; Isamu     | Hikami         |       |          | JPX     |
| Tanaka; Ken-ichi    | Hikami         |       |          | JPX     |

US-CL-CURRENT: 524/64; 524/514, 524/802

|      |       |          |       |        |                |      |           |
|------|-------|----------|-------|--------|----------------|------|-----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|

|      |           |       |
|------|-----------|-------|
| FIGS | Draw Desc | Image |
|------|-----------|-------|

☐ 7. Document ID: US 4549931 A

L11: Entry 7 of 7

File: USPT

Oct 29, 1985

# KG

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## Walk-Up\_Printing

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Printer: cp3\_4c07\_gbloptr

### Summary

| Document    | Pages | Printed | Missed |
|-------------|-------|---------|--------|
| US0X0000001 | 1     | 1       | 0      |
| Total (1)   | 1     | 1       | 0      |

US-PAT-NO: 4549931

DOCUMENT-IDENTIFIER: US 4549931 A

TITLE: Inorganic binders for articles formed from fibers

DATE-ISSUED: October 29, 1985

## INVENTOR-INFORMATION:

| NAME               | CITY       | STATE | ZIP CODE | COUNTRY |
|--------------------|------------|-------|----------|---------|
| Adamowicz; John A. | Corning    | NY    |          |         |
| Schlup; John R.    | Horseheads | NY    |          |         |
| Spotz; Mark S.     | Corning    | NY    |          |         |

US-CL-CURRENT: 162/145; 162/146, 162/152, 162/158, 162/179, 162/181.1, 162/181.4,  
162/181.5

|      |       |          |       |        |                |      |           |
|------|-------|----------|-------|--------|----------------|------|-----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|

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| Term   | Documents |
|--|-----------|
| POLYAMINE.USPT,PGPB.                               | 19184     |
| POLYAMINES.USPT,PGPB.                              | 20317     |
| EPICHLOROHYDRIN.USPT,PGPB.                         | 21968     |
| EPICHLOROHYDRINS.USPT,PGPB.                        | 220       |
| ((POLYAMINE ADJ EPICHLOROHYDRIN) AND 2).USPT,PGPB. | 7         |

[Display](#)Documents, starting with Document: **Display Format:** [Change Format](#)

# Q

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for

## Walk-Up\_Printing

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Printer: cp3\_4c07\_gbgnptr

Date: 07/20/00

Time: 15:53:23

### Document Listing

| Document    | Selected Pages | Page Range |
|-------------|----------------|------------|
| US004019995 | 15             | 1 - 15     |
| Total (1)   | 15             | -          |

**WEST**

Generate Collection

Search Results - Record(s) 1 through 10 of 14 returned.

☐ 1. Document ID: US 5964934 A

L1: Entry 1 of 14

File: USPT

Oct 12, 1999

US-PAT-NO: 5964934

DOCUMENT-IDENTIFIER: US 5964934 A

TITLE: Acoustical tile containing treated perlite

DATE-ISSUED: October 12, 1999

## INVENTOR-INFORMATION:

| NAME             | CITY         | STATE | ZIP CODE | COUNTRY |
|------------------|--------------|-------|----------|---------|
| Englert; Mark H. | Libertyville | IL    |          |         |

US-CL-CURRENT: 106/287.1; 106/287.11, 106/287.15, 106/287.16, 106/DIG.2

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 2. Document ID: US 5817262 A

L1: Entry 2 of 14

File: USPT

Oct 6, 1998

US-PAT-NO: 5817262

DOCUMENT-IDENTIFIER: US 5817262 A

TITLE: Process of producing gypsum wood fiber product having improved water resistance

DATE-ISSUED: October 6, 1998

## INVENTOR-INFORMATION:

| NAME             | CITY         | STATE | ZIP CODE | COUNTRY |
|------------------|--------------|-------|----------|---------|
| Englert; Mark H. | Libertyville | IL    |          |         |

US-CL-CURRENT: 264/86; 162/164.4, 162/187, 264/236, 264/347, 264/87

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 3. Document ID: US 5395438 A

L1: Entry 3 of 14

File: USPT

Mar 7, 1995



US-PAT-NO: 5395438

DOCUMENT-IDENTIFIER: US 5395438 A

TITLE: Mineral wool-free acoustical tile composition

DATE-ISSUED: March 7, 1995

## INVENTOR-INFORMATION:

| NAME               | CITY          | STATE | ZIP CODE | COUNTRY |
|--------------------|---------------|-------|----------|---------|
| Baig; Mirza A.     | Des Plaines   | IL    |          |         |
| Englert; Mark H.   | Buffalo Grove | IL    |          |         |
| Gaynor; John C.    | Antioch       | IL    |          |         |
| Kacner; Michael A. | Lindenhurst   | IL    |          |         |
| Singh; Rajinder    | Mundelein     | IL    |          |         |

US-CL-CURRENT: 106/164.51; 106/122, 106/162.51

|      |       |          |       |        |                |      |           |
|------|-------|----------|-------|--------|----------------|------|-----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|

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| FORM | Draw Desc | Image |
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☐ 4. Document ID: US 5250153 A

L1: Entry 4 of 14

File: USPT

Oct 5, 1993

US-PAT-NO: 5250153

DOCUMENT-IDENTIFIER: US 5250153 A

TITLE: Method for manufacturing a mineral wool panel

DATE-ISSUED: October 5, 1993

## INVENTOR-INFORMATION:

| NAME             | CITY          | STATE | ZIP CODE | COUNTRY |
|------------------|---------------|-------|----------|---------|
| Izard; David G.  | Wauconda      | IL    |          |         |
| Englert; Mark H. | Buffalo Grove | IL    |          |         |

US-CL-CURRENT: 162/152; 162/168.3, 162/169, 162/175, 162/178, 162/181.1,  
162/181.3, 162/181.6, 162/181.8, 162/183, 162/208, 162/212, 162/217

|      |       |          |       |        |                |      |           |
|------|-------|----------|-------|--------|----------------|------|-----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|

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| FORM | Draw Desc | Image |
|------|-----------|-------|

☐ 5. Document ID: US 5047120 A

L1: Entry 5 of 14

File: USPT

Sep 10, 1991

TABLE 5-continued

| Ex. | No. | Hs   | Mo 100 | T <sub>g</sub> | E <sub>g</sub> | Hs   | T <sub>g</sub> | E <sub>g</sub> |
|-----|-----|------|--------|----------------|----------------|------|----------------|----------------|
|     |     | (ps) | (MPa)  | (MPa)          | (%)            | (ps) | (%)            | (%)            |
| 58  | 73  | 6.7  | 9.6    | 130            | +3             | +5   | -23            |                |
| 59  | 77  | 6.6  | 9.7    | 190            | +2             | -3   | -17            |                |

## COMPARATIVE EXAMPLE 7

The following components were kneaded and vulcanized in the same manner as in Example 30:

|                                     |                     |
|-------------------------------------|---------------------|
| Acrylic copolymer elastomer L       | 100 parts by weight |
| Stearic acid                        | 1 parts by weight   |
| Antioxidant (Nocack CD)             | 2 parts by weight   |
| HAf carbon black                    | 2 parts by weight   |
| Calcium hydroxide                   | 5 parts by weight   |
| Magnesium oxide                     | 2 parts by weight   |
| Bisphenol AF                        | 1 parts by weight   |
| Benzyltriphenylphosphonium chloride | 4 parts by weight   |

## COMPARATIVE EXAMPLE 8

The following components were kneaded and vulcanized in the same manner as in Example 30:

|                               |                     |
|-------------------------------|---------------------|
| Acrylic copolymer elastomer L | 100 parts by weight |
| Stearic acid                  | 1 parts by weight   |
| Antioxidant (Nocack CD)       | 2 parts by weight   |
| HAf carbon black              | 60 parts by weight  |
| 2,4,6-trimercaptotriazine     | 0.5 parts by weight |
| Sodium stearate               | 2 parts by weight   |

## COMPARATIVE EXAMPLE 9

|                                     |                     |
|-------------------------------------|---------------------|
| Fluorine-containing elastomer A     | 100 parts by weight |
| MT carbon black                     | 25 parts by weight  |
| Calcium hydroxide                   | 5 parts by weight   |
| Magnesium oxide                     | 2 parts by weight   |
| Bisphenol AF                        | 2 parts by weight   |
| Benzyltriphenylphosphonium chloride | 0.4 parts by weight |

## COMPARATIVE EXAMPLES 10 TO 13

The following components were kneaded and vulcanized in the same manner as in Example 30:

The above components were kneaded and vulcanized in the same manner as in Example 30, except that the secondary vulcanization was carried out at 230° C. for 24 hours. Results of determination of physical properties and tests in Comparative Examples 7 to 9 are shown in the following Table 6, where no crack occurrence was observed in the deterioration test with engine oil in Comparative Examples 7 and 8, but crack occurrence were observed in Comparative Example 9.

| Ex. | No. | Hs                  | Mo 100 | T <sub>g</sub> | E <sub>g</sub> | Hs   | T <sub>g</sub> | E <sub>g</sub> |
|-----|-----|---------------------|--------|----------------|----------------|------|----------------|----------------|
|     |     | (ps)                | (MPa)  | (MPa)          | (%)            | (ps) | (%)            | (%)            |
| 10  |     | 100 parts by weight |        |                |                |      |                |                |
| 11  |     | 100 parts by weight |        |                |                |      |                |                |
| 12  |     | 100 parts by weight |        |                |                |      |                |                |
| 13  |     | 100 parts by weight |        |                |                |      |                |                |
| 14  |     | 100 parts by weight |        |                |                |      |                |                |
| 15  |     | 100 parts by weight |        |                |                |      |                |                |
| 16  |     | 100 parts by weight |        |                |                |      |                |                |
| 17  |     | 100 parts by weight |        |                |                |      |                |                |
| 18  |     | 100 parts by weight |        |                |                |      |                |                |
| 19  |     | 100 parts by weight |        |                |                |      |                |                |
| 20  |     | 100 parts by weight |        |                |                |      |                |                |
| 21  |     | 100 parts by weight |        |                |                |      |                |                |
| 22  |     | 100 parts by weight |        |                |                |      |                |                |
| 23  |     | 100 parts by weight |        |                |                |      |                |                |
| 24  |     | 100 parts by weight |        |                |                |      |                |                |
| 25  |     | 100 parts by weight |        |                |                |      |                |                |
| 26  |     | 100 parts by weight |        |                |                |      |                |                |
| 27  |     | 100 parts by weight |        |                |                |      |                |                |
| 28  |     | 100 parts by weight |        |                |                |      |                |                |
| 29  |     | 100 parts by weight |        |                |                |      |                |                |
| 30  |     | 100 parts by weight |        |                |                |      |                |                |
| 31  |     | 100 parts by weight |        |                |                |      |                |                |
| 32  |     | 100 parts by weight |        |                |                |      |                |                |
| 33  |     | 100 parts by weight |        |                |                |      |                |                |
| 34  |     | 100 parts by weight |        |                |                |      |                |                |
| 35  |     | 100 parts by weight |        |                |                |      |                |                |
| 36  |     | 100 parts by weight |        |                |                |      |                |                |
| 37  |     | 100 parts by weight |        |                |                |      |                |                |
| 38  |     | 100 parts by weight |        |                |                |      |                |                |
| 39  |     | 100 parts by weight |        |                |                |      |                |                |
| 40  |     | 100 parts by weight |        |                |                |      |                |                |
| 41  |     | 100 parts by weight |        |                |                |      |                |                |
| 42  |     | 100 parts by weight |        |                |                |      |                |                |
| 43  |     | 100 parts by weight |        |                |                |      |                |                |
| 44  |     | 100 parts by weight |        |                |                |      |                |                |
| 45  |     | 100 parts by weight |        |                |                |      |                |                |
| 46  |     | 100 parts by weight |        |                |                |      |                |                |
| 47  |     | 100 parts by weight |        |                |                |      |                |                |
| 48  |     | 100 parts by weight |        |                |                |      |                |                |
| 49  |     | 100 parts by weight |        |                |                |      |                |                |
| 50  |     | 100 parts by weight |        |                |                |      |                |                |
| 51  |     | 100 parts by weight |        |                |                |      |                |                |
| 52  |     | 100 parts by weight |        |                |                |      |                |                |
| 53  |     | 100 parts by weight |        |                |                |      |                |                |
| 54  |     | 100 parts by weight |        |                |                |      |                |                |
| 55  |     | 100 parts by weight |        |                |                |      |                |                |
| 56  |     | 100 parts by weight |        |                |                |      |                |                |
| 57  |     | 100 parts by weight |        |                |                |      |                |                |
| 58  |     | 100 parts by weight |        |                |                |      |                |                |
| 59  |     | 100 parts by weight |        |                |                |      |                |                |
| 60  |     | 100 parts by weight |        |                |                |      |                |                |
| 61  |     | 100 parts by weight |        |                |                |      |                |                |
| 62  |     | 100 parts by weight |        |                |                |      |                |                |
| 63  |     | 100 parts by weight |        |                |                |      |                |                |
| 64  |     | 100 parts by weight |        |                |                |      |                |                |
| 65  |     | 100 parts by weight |        |                |                |      |                |                |
| 66  |     | 100 parts by weight |        |                |                |      |                |                |
| 67  |     | 100 parts by weight |        |                |                |      |                |                |
| 68  |     | 100 parts by weight |        |                |                |      |                |                |
| 69  |     | 100 parts by weight |        |                |                |      |                |                |
| 70  |     | 100 parts by weight |        |                |                |      |                |                |
| 71  |     | 100 parts by weight |        |                |                |      |                |                |
| 72  |     | 100 parts by weight |        |                |                |      |                |                |
| 73  |     | 100 parts by weight |        |                |                |      |                |                |
| 74  |     | 100 parts by weight |        |                |                |      |                |                |
| 75  |     | 100 parts by weight |        |                |                |      |                |                |
| 76  |     | 100 parts by weight |        |                |                |      |                |                |
| 77  |     | 100 parts by weight |        |                |                |      |                |                |
| 78  |     | 100 parts by weight |        |                |                |      |                |                |
| 79  |     | 100 parts by weight |        |                |                |      |                |                |
| 80  |     | 100 parts by weight |        |                |                |      |                |                |
| 81  |     | 100 parts by weight |        |                |                |      |                |                |
| 82  |     | 100 parts by weight |        |                |                |      |                |                |
| 83  |     | 100 parts by weight |        |                |                |      |                |                |
| 84  |     | 100 parts by weight |        |                |                |      |                |                |
| 85  |     | 100 parts by weight |        |                |                |      |                |                |
| 86  |     | 100 parts by weight |        |                |                |      |                |                |
| 87  |     | 100 parts by weight |        |                |                |      |                |                |
| 88  |     | 100 parts by weight |        |                |                |      |                |                |
| 89  |     | 100 parts by weight |        |                |                |      |                |                |
| 90  |     | 100 parts by weight |        |                |                |      |                |                |
| 91  |     | 100 parts by weight |        |                |                |      |                |                |
| 92  |     | 100 parts by weight |        |                |                |      |                |                |
| 93  |     | 100 parts by weight |        |                |                |      |                |                |
| 94  |     | 100 parts by weight |        |                |                |      |                |                |
| 95  |     | 100 parts by weight |        |                |                |      |                |                |
| 96  |     | 100 parts by weight |        |                |                |      |                |                |
| 97  |     | 100 parts by weight |        |                |                |      |                |                |
| 98  |     | 100 parts by weight |        |                |                |      |                |                |
| 99  |     | 100 parts by weight |        |                |                |      |                |                |
| 100 |     | 100 parts by weight |        |                |                |      |                |                |

Results of determination of physical properties and tests in Comparative Examples 10 to 13 are shown in the following Table 6, where no crack occurrence was observed at all in the deterioration test with engine oil throughout Comparative Examples 10 and 13.

TABLE 6

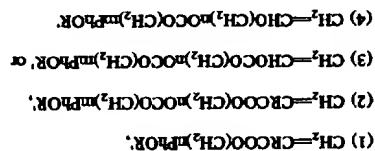
| Ex. | No. | Hs   | Mo 100 | T <sub>g</sub> | E <sub>g</sub> | Hs   | T <sub>g</sub> | E <sub>g</sub> |
|-----|-----|------|--------|----------------|----------------|------|----------------|----------------|
|     |     | (ps) | (MPa)  | (MPa)          | (%)            | (ps) | (%)            | (%)            |
| 7   | 48  | 0.4  | 5.1    | 4.60           | +19            | +4   | -69            |                |
| 8   | 70  | 6.9  | 16.7   | 1.80           | +11            | -44  | -4             |                |
| 9   | 72  | 4.1  | 11.6   | 3.10           | +1             | -3   | -3             |                |
| 10  | 58  | 3.1  | 8.5    | 2.60           | +7             | -33  | -28            |                |
| 11  | 57  | 2.8  | 8.1    | 2.50           | +6             | -37  | -36            |                |
| 12  | 48  | 1.4  | 3.5    | 4.90           | +17            | +14  | -49            |                |
| 13  | 70  | 1.3  | 8.6    | 3.30           | +5             | -42  | -21            |                |

## COMPARATIVE EXAMPLE 14

Acrylic copolymer elastomer M and fluorine-containing elastomer A were blended in a ratio of 50:50 by weight by roll method to prepare blend rubber W. The thus obtained blend rubber W was subjected to mixing, heading and vulcanization in the same manner as in Example 30. No cross-linking reaction took place at all.

What is claimed is:

1. An acrylic copolymer elastomer which comprises a copolymer of an alkyl acrylate having an alkyl group having 1 to 8 carbon atoms and an unsaturated ester compound represented by the following general formula:



where R is a hydrogen atom or a methyl group; R<sup>1</sup> is a hydrogen atom, an acyl group or a trialkylsilyl group; Ph is a phenylene group; n is an integer of 1 to 6; and m is 0 or an integer of 1 to 3.

2. An acrylic copolymer elastomer according to claim 1, wherein the copolymer has a Mooney viscosity (100° C.) of about 10 to about 100 pfs.

\* \* \*



US-PAT-NO: 5047120  
DOCUMENT-IDENTIFIER: US 5047120 A

TITLE: Method for manufacture of lightweight frothed mineral wool panel

DATE-ISSUED: September 10, 1991

INVENTOR-INFORMATION:

| NAME             | CITY          | STATE | ZIP CODE | COUNTRY |
|------------------|---------------|-------|----------|---------|
| Izard; David G.  | Wauconda      | IL    |          |         |
| Englert; Mark H. | Buffalo Grove | IL    |          |         |

US-CL-CURRENT: 162/101; 162/152, 162/158, 162/168.1, 162/169, 162/181.1,  
162/181.6, 162/208

|      |       |          |       |        |                |      |           |
|------|-------|----------|-------|--------|----------------|------|-----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|

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| KWIC | Draw Desc | Image |
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☐ 6. Document ID: JP 07315908 A

L1: Entry 6 of 14

File: JPAB

Dec 5, 1995

PUB-NO: JP407315908A  
DOCUMENT-IDENTIFIER: JP 07315908 A  
TITLE: MINERAL WOOL-FREE ACOUSTICAL TILE COMPOSITION

PUBN-DATE: December 5, 1995

INVENTOR-INFORMATION:

| NAME              | COUNTRY |
|-------------------|---------|
| BAIG, MIRZA A     |         |
| ENGLERT, MARK H   |         |
| GAYNOR, JOHN C    |         |
| KACNER, MICHAEL A |         |
| SINGH, RAJINDER   |         |

INT-CL (IPC): C04B 28/14; C04B 14/18; C04B 14/42; C04B 16/02; C04B 16/06; C04B 24/38; C04B 26/28; C04B 33/13; C04B 35/632; C04B 35/26; C04B 35/80; E04B 1/82; E04B 9/00

|      |       |          |       |        |                |      |           |
|------|-------|----------|-------|--------|----------------|------|-----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|

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| KWIC | Draw Desc | Image |
|------|-----------|-------|

☐ 7. Document ID: EP 924341 A1

L1: Entry 7 of 14

File: EPAB

Jun 23, 1999

Art Unit: 1711

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to U. K. Rajguru whose telephone number is (703) 308-3224. The examiner can normally be reached on Monday-Friday from 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck, can be reached on (703) 308-2462. The appropriate fax number for the organization where this application or proceeding is assigned is (703) 305-3599. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

UKR  
WKS

June 14, 2000

James J. Seidleck  
Supervisory Patent Examiner  
Technology Center 1700

PUB-NO: EP000924341A1  
DOCUMENT-IDENTIFIER: EP 924341 A1  
TITLE: Acoustical tile containing treated perlite

PUBN-DATE: June 23, 1999

INVENTOR-INFORMATION:

NAME

ENGLERT, MARK H

COUNTRY

US

INT-CL (IPC): D21H 17/69; E04C 2/10; C04B 14/18  
EUR-CL (EPC): D21H013/44

| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|
|------|-------|----------|-------|--------|----------------|------|-----------|

| KWIC | Draw Desc | Image |
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☐ 8. Document ID: US 5817262 A

L1: Entry 8 of 14

File: EPAB

Oct 6, 1998

PUB-NO: US005817262A  
DOCUMENT-IDENTIFIER: US 5817262 A  
TITLE: Process of producing gypsum wood fiber product having improved water resistance

PUBN-DATE: October 6, 1998

INVENTOR-INFORMATION:

NAME

ENGLERT, MARK H

COUNTRY

US

INT-CL (IPC): B28B 1/26  
EUR-CL (EPC): C04B011/02; C04B024/42, C04B028/14

| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|
|------|-------|----------|-------|--------|----------------|------|-----------|

| KWIC | Draw Desc | Image |
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☐ 9. Document ID: US 5395438 A

L1: Entry 9 of 14

File: EPAB

Mar 7, 1995

Art Unit: 1711

**REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance:

Pending claims 10-42 are now in condition for allowance for the following reasons:

Rejection of claim 12 under 35 USC 112, second paragraph is withdrawn following persuasive arguments against it from the appellants.

The primary reference Trinh et al (USP 4818569) fails to suggest polyamine, first ingredient of the (claimed) composition, though it teaches the carboxylic acid, second ingredient. Other primary reference EP 206513 discloses composition containing both polyamine and fatty acid Morton (USP 3686025), a secondary

reference, discloses a softening composition which can be impregnated into absorbent materials used as means to dispense that composition. Though Morton teaches a dispensing means, there is no advantage to be gained and therefore no motivation in combining Morton with EP 513. There are few secondary references

relied upon, but they fail to compensate for deficiencies of either primary reference.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

PUB-NO: US005395438A  
DOCUMENT-IDENTIFIER: US 5395438 A  
TITLE: Mineral wool-free acoustical tile composition

PUBN-DATE: March 7, 1995

INVENTOR-INFORMATION:

NAME

BAIG, MIRZA A  
ENGLERT, MARK H  
GAYNOR, JOHN C  
KACNER, MICHAEL A  
SINGH, RAJINDER

COUNTRY

US  
US  
US  
US  
US

INT-CL (IPC): C09D 1/00  
EUR-CL (EPC): C04B026/28

| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|
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| KWIC | Draw Desc | Image |
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☐ 10. Document ID: US 5250153 A

L1: Entry 10 of 14

File: EPAB

Oct 5, 1993

PUB-NO: US005250153A  
DOCUMENT-IDENTIFIER: US 5250153 A  
TITLE: Method for manufacturing a mineral wool panel

PUBN-DATE: October 5, 1993

INVENTOR-INFORMATION:

NAME

IZARD, DAVID G  
ENGLERT, MARK H

COUNTRY

US  
US

INT-CL (IPC): D21H 13/38  
EUR-CL (EPC): C04B024/38; C04B026/04, D21F011/02 , D21H013/40 , D21H017/37 ,  
D21J001/06 , D21J001/20 , D21H023/04

| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|
|------|-------|----------|-------|--------|----------------|------|-----------|

| KWIC | Draw Desc | Image |
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Generate Collection

| Term   | Documents |
|--|-----------|
| ENGLERT.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.                     | 1080      |
| ENGLERTS   | 0         |
| MARK[DWPI,EPAB,JPAB,USPT,PGPB]                             | 352378    |
| MARKS[DWPI,EPAB,JPAB,USPT,PGPB]                            | 122651    |
| (ENGLERT ADJ<br>(MARK[IN])).USPT,PGPB,JPAB,EPAB,DWPI,TDBD. | 14        |

1. A preliminary amendment has been filed on June 9, 1999 (paper no. 3).

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lawson (USP

4,123,488) or Marvel et al (USP 4,250,222).

Lawson discloses a molded plastic article. Finely ground/thermosetting resins, catalysts, *which comprises the unsaturated resin can be incorporated in the system*

fillers etc (col. 2, line 67 to col. 3, line 29).

Lawson does not mention the (claimed) ultra-fine grained form of the thermoplastic.

The examiner is of the opinion that the degree of fineness of the pulverized resin is a matter of

personal choice based on specific requirements of the operation. It would therefore have been

obvious to follow teachings of Lawson to arrive at the subject matter encompassed by this claim.

Marvel also discloses finished and semi-finished products made from coarsely ground

thermoplastic (abstract), but fails to suggest the ultra-fine grained structure of thermoplastic.

It would also have been obvious to arrive at instantly claimed invention (of instant claim

13) by following teachings of Marvel.

**WEST**

Generate Collection

## Search Results - Record(s) 11 through 14 of 14 returned.

☐ 11. Document ID: US 5047120 A

L1: Entry 11 of 14

File: EPAB

Sep 10, 1991

PUB-NO: US005047120A

DOCUMENT-IDENTIFIER: US 5047120 A

TITLE: Method for manufacture of lightweight frothed mineral wool panel

PUBN-DATE: September 10, 1991

## INVENTOR-INFORMATION:

NAME

IZARD, DAVID G

ENGLERT, MARK H

COUNTRY

US

US

INT-CL (IPC): D21H 3/00

EUR-CL (EPC): C04B026/04; D21F011/00, D21H023/04 , D21H013/40 , D21H013/44 ,  
D21H017/36

|      |       |          |       |        |                |      |           |
|------|-------|----------|-------|--------|----------------|------|-----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference |
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☐ 12. Document ID: WO 9012169 A1

L1: Entry 12 of 14

File: EPAB

Oct 18, 1990

PUB-NO: WO009012169A1

DOCUMENT-IDENTIFIER: WO 9012169 A1

TITLE: METHOD FOR MANUFACTURING A MINERAL WOOL PANEL

PUBN-DATE: October 18, 1990

## INVENTOR-INFORMATION:

NAME

IZARD, DAVID G

ENGLERT, MARK H

COUNTRY

US

US

US-CL-CURRENT: 524/417

INT-CL (IPC): C08L 33/00; E04B 1/90

EUR-CL (EPC): C04B024/38; C04B026/04, D21H013/40 , D21J001/06 , D21J001/20 ,  
D21H023/04

|      |       |          |       |        |                |      |           |
|------|-------|----------|-------|--------|----------------|------|-----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|

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| KWIC | Draw Desc | Clip Img | Image |
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☐ 13. Document ID: WO 8805100 A1

L1: Entry 13 of 14

File: EPAB

Jul 14, 1988

21 Jan 2020 (1)

Application/Serial Number: 09/367770

Page 2

Art Unit: 1711

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:  
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6, 7 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 7 and 8 provides for the use of an interior coating material, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claim 6 is rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd. v. Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Claim 6 indefinite in failing to recite the upper limit of the solid content in line 4.  
2. The disclosure is objected to because of the following informalities: Colon used after "comprising" and "consisting of" in claim 1, (a), (b) and (c) should be deleted. .  
Appropriate correction is required.



PUB-NO: WO008805100A1  
DOCUMENT-IDENTIFIER: WO 8805100 A1  
TITLE: METHOD FOR MANUFACTURE OF LIGHTWEIGHT FROTHED MINERAL WOOL PANEL

PUBN-DATE: July 14, 1988

INVENTOR-INFORMATION:

NAME

IZARD, DAVID GRAHAM

ENGLERT, MARK HOWARD

COUNTRY

US

US

US-CL-CURRENT: 162/101

INT-CL (IPC): D21H 3/00

EUR-CL (EPC): D21F011/00; D21J001/20, D21H013/40 , D21H013/44 , D21H017/36 ,  
D21H017/45

| Full | Title | Citation | Front | Review | Classification | Date | Reference |
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☐ 14. Document ID: WO 8805097 A1

L1: Entry 14 of 14

File: EPAB

Jul 14, 1988

PUB-NO: WO008805097A1

DOCUMENT-IDENTIFIER: WO 8805097 A1

TITLE: METHOD FOR MANUFACTURING A MINERAL PANEL

PUBN-DATE: July 14, 1988

INVENTOR-INFORMATION:

NAME

IZARD, DAVID GRAHAM

ENGLERT, MARK HOWARD

COUNTRY

US

US

US-CL-CURRENT: 162/101; 162/168.1, 162/168.3, 162/208

INT-CL (IPC): D21D 3/00

EUR-CL (EPC): D21F011/02; D21J001/20, D21H013/40 , D21H017/37

| Full | Title | Citation | Front | Review | Classification | Date | Reference |
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| Term   | Documents |
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| ENGLERT.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.                     | 1080      |
| ENGLERTS   | 0         |
| MARK[DWPI,EPAB,JPAB,USPT,PGPB]                             | 352378    |
| MARKS[DWPI,EPAB,JPAB,USPT,PGPB]                            | 122651    |
| (ENGLERT ADJ<br>(MARK[IN])).USPT,PGPB,JPAB,EPAB,DWPI,TDBD. | 14        |

Art Unit: 1711

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-89 are rejected under 35 U.S.C. 102(b) as being anticipated by Cole (USP (AB -

1&3) 5514433).

Cole is of record on PTO-1449, paper no. 3). Cole discloses a coating composition for

metal containers, a metal of coating and a metal article. Compositions comprises (a) an epoxy

resin, (b) a phenolic resin, (c) a vinyl chloride copolymer (d) a vinyl chloride dispersion resin and

(e) a nonaqueous carrier (abstract col 3 lines 59-67; col 4, lines 1-14). Pigments such as titanium

dioxide can be included in this composition (col. 9, lines 31-52). Solid content of such a

composition is about 54% (col. 10, lines 57-59). Amounts of ingredients of composition in

examples in cols. 10-12 satisfy the mathematical limitations of instant claim 1.

Instant claims therefore lack novelty.

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

**WEST**

Generate Collection

**Search Results - Record(s) 1 through 2 of 2 returned.**☐ 1. Document ID: SU 1058982 A

L11: Entry 1 of 2

File: DWPI

Dec 7, 1983

DERWENT-ACC-NO: 1984-199936

DERWENT-WEEK: 198432

COPYRIGHT 2001 DERWENT INFORMATION LTD

TITLE: Mixt. for prepn. of waterproofing material - contains modified kaolin as filler, and sodium carboxymethyl cellulose as thickener to improve properties

INVENTOR: KRUGLITSKI, N N; MAKAROV, A S ; TRETINNIK, V Y U

PRIORITY-DATA: 1981SU-3332330 (August 19, 1981)

## PATENT-FAMILY:

| PUB-NO       | PUB-DATE         | LANGUAGE | PAGES | MAIN-IPC |
|--------------|------------------|----------|-------|----------|
| SU 1058982 A | December 7, 1983 |          | 004   |          |

INT-CL (IPC): C08K 9/04; C08L 11/02

| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|
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☐ 2. Document ID: DE 2512293 A, FR 2268514 A, GB 1471215 A, US 3995024 A, ZA 7501729 A

L11: Entry 2 of 2

File: DWPI

Nov 20, 1975

DERWENT-ACC-NO: 1975-79021W

DERWENT-WEEK: 197548

COPYRIGHT 2001 DERWENT INFORMATION LTD

TITLE: Dentifrice contg. sodium carboxymethyl cellulose thickener - water-swellable clay and water-soluble salt of hydroxybenzoic acid esters

PRIORITY-DATA: 1974GB-0018357 (April 26, 1974)

## PATENT-FAMILY:

| PUB-NO       | PUB-DATE          | LANGUAGE | PAGES | MAIN-IPC |
|--------------|-------------------|----------|-------|----------|
| DE 2512293 A | November 20, 1975 |          | 000   |          |
| FR 2268514 A | December 26, 1975 |          | 000   |          |
| GB 1471215 A | April 21, 1977    |          | 000   |          |
| US 3995024 A | November 30, 1976 |          | 000   |          |
| ZA 7501729 A | January 9, 1976   |          | 000   |          |

INT-CL (IPC): A61K 7/16

Art Unit: 1711

1. The request filed on April 24, 2000 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/042777 is acceptable and a CPA has been established. An action on the CPA follows.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bhojraj et al. (WO 96/20879) in view of Bayer (U.S.P. 5306542).

This rejection is incorporated here by reference from prior office action (paper No. 3), section 1, pages 2-3.

4. Applicant's arguments filed April 24, 2000 (paper No. 7) have been fully considered but they are not persuasive.

On page 3, paragraph 3 of above response, the applicants admits that Bhojraj teaches EVA at 85-99.5% which overlaps the claimed range of 85.95%. There need to be no more express suggestion in Bhojraj to pick up claimed 85-95% range.

Bhojraj uses EVA from about 70% to about 99.5% (with 28% VA content) the range of VA content is ( 79.6% and =27,86) 19,6% to 27,86%. Thus here also Bhojraj teaches a range of VA content which overlaps the claimed 15-22% range.

17 Jul 2002